AGFAPHOTO

Digital Camera

OPTIMA 104

12.0 MP · 4X Optical zoom · Wide angle · 3.0" LCD · Touch Screen · Face tracking · Blink detection · AF lamp · HDR Image · Li-Ion battery · Metal body

- 12.0 MegaPixel CCD sensor
- 4x wide angle optical zoom
- 3.0" TFT LCD touch screen
- 30 scene modes
- On-screen editing
- OSD help-screen
- HDR images (High Dynamic Range)
- Metal body

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Technical details

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Image sensor	
Sensor	12.0 MegaPixel CCD sensor
Optics	
Lens type	6 elements in 5 groups
Focal length	f = 5.05 (W) ~ 20.2 (T) mm
Equivalent to 35mm camera	29 (W) ~ 110 (T) mm
Brightness	F/ 2.8 (W), 6.3 (T)
Shutter speed	1/2000 ~ 1 sec.
Zoom	
Optical zoom, digital zoom	4x, 5x
Focusing	
Focus range (normal)	70 cm ~ infinity (W), 100 cm ~ infinity (T)
Focus range (macro)	12 cm ~ 100 cm (W), 70 cm ~ 120 cm (T)
Exposure	
Exposure compensation	-2 EV to +2 EV in 1/3 steps, (-2.0, -1.7,-1.3, -1.0, -0.7, -0.3, 0.0, +0.3, +0.7, +1.0,+1.3, +1.7, +2.0)
Exposure metering	Center-weighted, multi, spot
Exposure control	Automatic/ manual
ISO	Auto, 100, 200, 400, 800, 1600, 3200
White balance	Automatic, daylight, cloudy, tungsten, fluorescent_H, fluorescent_L, customer
LCD	
Display	3.0" TFT LCD touch screen
Resolution	960 (W) x 240 (H)
Memory	
Memory (internal)	32 MB
Memory (external)	SD card: up to 4 GB; SDHC card: up to 32 GB
Resolution	
Still image	4000 x 3000, 4000 x 2672 (3:2), 3264 x 2448, 2592 x 1944, 2048 x 1536, 1920 x 1080 (16:9), 640 x 480 (VGA)
Video	1280 x 720 (16:9) only supported SDHC Class (6), 848 x 480 (16:9), 640 x 480 (share YouTube®), 320 x 240
Video frame rate	30 fps
File formats	
Still image	JPEG (EXIF 2.2 compatible), DCF format, DPOF compatible
Video	MJPEG w/audio
Audio	WAV
Flash modes	
Flash light	Automatic, red eye reduction, slow sync, on/ off

Scene modes	
Scene modes	Automatic, program, intelligent scene, portrait, landscape, sunset, backlight, kids, night scene, fireworks, snow, sports, party, candlelight, night portrait, soft skin, soft flowing water, food, building, text, foliage, auction, smile detection, blink detection, pre-composition, love portrait, self portrait, HDR image, movie, voice recording
Interfaces	
USB 2.0	Full speed
TV out	PAL/ NTSC
Power source	
Power supply	Lithium-ion battery (NP45)
Auto power off	1 min., 3 min., 5 min.
Others	
Camera dimensions	91.5 x 57.7 x 17.1 mm
Body	Metal
Weight	100 g
Accessories	
Accessories	USB cable, lithium-ion battery, battery charger, power cord (EU), hand strap, CD software, quick guide
Logistics	
Item number	06967
Bar code	4004781069672
UPC code	884375069677
Packaging size	185 x 146 x 78 mm
Packaging unit	5
Weight (packaging)	TBD
Weight (packaging unit)	TBD
Dimensions (packaging unit)	412 x 164 x 215 mm

Dealer stamp

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